RISK ASSESSMENT PROCEDURES FOR MILITARY MUNITIONS RESPONSE PROJECTS

Property Name: EPHRATA BOMBING TARGET Raters Name: CEMVS-ED-DO

Range Name: Bomb Target

Property Location: EPHRATA, WA Phone: 309-794-5504

DERP Project #: F10WA028301 Organization: CEMVR-ED-DO Property Type: FUDS Date Completed: May 01, 2003

Score: 5

RISK ASSESSMENT

This risk assessment (RAC) procedure was developed to address explosives safety hazards related to munitions. This procedure does not address environmental hazards associated with munitions constituents. The U.S. Army Engineering and Support Center, Huntsville (USAESCH), Ordnance and Explosives Directorate (CEHNC-OE) developed this procedure in accordance with MIL STD 882C and AR 385 10. The Risk Assessment Code (RAC) score will be used by the U.S. Army Corps of Engineers to prioritize the response action(s) at Formerly Used Defense Sites (FUDS). The risk assessment should be based on the best available information resulting from record searches, reports of Explosive Ordnance Disposal (EOD) actions, field observations (site visits), and interviews. This information is used to assess the risk involved based on the potential MMR hazards identified for the project. The risk assessment evaluates two factors, hazard severity and hazard probability.

PART I. <u>Hazard Severity.</u> Hazard severity categories are defined to provide a qualitative measure of the worst credible event resulting from personnel exposure to various types and quantities of unexploded ordnance.

TYPE OF ORDNANCE: (Check all that apply)

A. InvestiConventional Ordnance and Ammunition

Other explosive item not previously stated	10
Bombs, explosive	10
Landmine, explosive	10
Rockets, guided missile, explosive	10
Grenades, hand or rifle, explosive	10
Explosive Projectiles (20 millimeter and larger)	10
Detonators, blasting caps, fuzes, boosters, bursters	6
Bombs, practice (w/spotting charges)	6
Practice ordnance (w/spotting charges)	4
Small arms (ball only or blank), complete round (.50 cal or less)	1
Small arms (ball only or blank), expended (.50 cal or less)	0
Practice ordnance (w/o spotting charges)	0
InvestiConventional Ordnance and Ammunition (Largest single value)	6

What evidence do you have regarding conventional unexploded ordnance?

There is no evidence of OE hazard.

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B. Pyrotechnics Munition containing White Phosphorus (WP) or other pyrophoric material (i.e., 10 spontaneously flammable) Munition containing a flame or incendiary material (i.e., Napalm, Triethylaluminum 10 metal incendiaries) Containers containing WP or other pyrophoric material or flame or incendiary 6 material 4 Flares, signals, simulators, screening/burning smokes (other than WP) Pyrotechnics (Largest single value) 0 What evidence do you have regarding pyrotechnics? None C. Bulk High Explosives Primary or initiating explosives (Lead Styphnate, Lead Azide, Nitroglycerin, 10 Mercury Azide, Mercury Fulminate, Tetracene, etc.) Secondary Explosives (Demolition Charges, PETN, Compositions A, B, C, Tetryl, 8 TNT, RDX, HMX, HBX, Black Powder, etc.) Insensitive explosve substances (explosive contaminated soils, ammonium nitrate, 3 Bulk High Explosives (Largest single value) 0 What evidence do you have regarding bulk explosives? None D. Bulk Propellants Solid or Liquid Propellants 6 Bulk Propellants (Largest single value) 0 What evidence do you have regarding bulk propellants? None E. Chemical Warfare Material (CWM) and Radiological Weapons Toxic Chemical Agents (H-Mustard, G-Nerve, V-Nerve and L-Lewisite) 25 Chemical Agent Identification Sets 20 Radiological Materiel (If rad waste is identified, please call the HTRW-CX at (402) 15 697-2555)

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Weaponized Industrial Chemicals (Hydrogen Cyanide AC; Cyanogen Chloride, CK;

Phosgene, CG)

Riot Control Agents (vomiting, tear)

10

5

What evidence do you have regarding chemical/radiological OEW?

None

Total Hazard Severity value: 6

Hazard Severity

Description	Category	Hazard Severity Value
CATASTROPHIC	I	21 OR GREATER
CRITICAL	II	10 TO 20
MARGINAL	III	5 TO 9
NEGLIGIBLE	IV	1 TO 4
*** NONE	V	0

^{*} IF HAZARD SEVERITY IS 0, YOU DO NOT NEED TO COMPLETE PART II OF THIS FORM.

Proceed to Part III and use a RAC score of 5 to determine your appropriate action.

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PART II. Hazard Probability. The probability that a hazard has been, or will be, created due to the presence and other rated factors of unexploded ordnance, explosives, incendiary, pyrotechnic, radiological, or RCWM materials on a formerly used Department of Defense (DOD) site.

AREA, EXTENT, ACCESSIBILITY OF OEW HAZARD

(Check all that apply)

A. Location of OEW Hazards

On the surface	5
Within tanks, pipes, vessels or other confined areas	4
Inside walls, ceilings, or other building/structure	3
Subsurface	2
Location of OEW Hazards (Largest single value)	2

What evidence do you have regarding location of OE?

No OE has been found or reported.

B. Distance to nearest inhabited location/structure likely to be at risk from OE hazard

Over 2 miles	1
1.0 mile to 2.0 Miles	2
0.5 mile to 1.0 mile	3
1,250 feet to 0.5 mile	4
Less than 1,250 feet	5

Distance to nearest inhabited location/structure likely to be at risk from OE hazard 1 (Largest single value)

What are the nearest inhabited structures/buildings?

This is a remote area used for cattle grazing.

C. Number of buildings within a 2 mile radius measured from the OE hazard area, not the installation boundary

26 and over	5
16 to 25	4
11 to 15	3
6 to 10	2
1 to 5	1
0	0

0

Number of buildings within a 2 mile radius measured from the OE hazard area, not the installation boundary (Largest single value)

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Narrative

This is a remote area used for cattle grazing.

D. Types of Buildings

Educational, child care, residential, hospitals, hotels, commercial, shopping centers Industrial, warehouse, etc. Agricultural, forestry, etc. Detention, correctional No buildings	5 4 3 2 0
Types of Buildings (Largest single value)	0

Describe the types of buildings

This is a remote area used for cattle grazing.

E. Accessibility to site refers to access by humans to ordnance and explosives. Use the following guidance

No barrier nor security system	5
Barrier is incomplete (e.g., in disrepair or does not completely surround the site).	4
Barrier is intended to deny egress from the site, as for a barbed wire fence for	
grazing.	
A barrier (any kind of fence in good repair) but no separate means to control	3
entry. Barrier is intended to deny access to the site.	
Security Guard, but no barrier	2
Discontinued Question (Isolated Site)	0
A 24-hour surveillance system (e.g., television monitoring or surveillance by	0
guards or facility personnel continuously monitors and controls entry; or, an	
artificial or natural barrier (e.g., fence combined with a cliff) which completely	
surrounds the ar	
Accessibility to site refers to access by humans to ordnance and explosives. Use	0
the following guidance (Largest single value)	
are renoving gardance (Largest single value)	

Describe the site accessibility

This is a remote area used for cattle grazing.

F. Site Dynamics - This deals with site conditions that are subject to change in the future, but may be stable at the present. Examples would be excessive soil erosion on beaches or streams, increasing land development that could reduce distances from the site to inhabited areas or otherwise increase accessibility

Expected	5
None Anticipated	0
Site Dynamics - This deals with site conditions that are subject to change in the future, but may be stable at the present. Examples would be excessive soil	0

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erosion on beaches or streams, increasing land development that could reduce distances from the site to inhabited areas or otherwise increase accessibility (Largest single value)

Describe the site dynamics

No changes are anticipated.

Total Hazard Probability value: 3

	TABLE 2		
	HAZARD PROBABILITY		
Description	Level	Hazard Probability Value	
FREQUENT	A	27 or greater	
PROBABLE	В	21 to 26	
OCCASIONAL	С	15 TO 20	
REMOTE	D	8 to 14	
IMPROBABLE	E	Less than 8	
* Apply Hazard Probability Level to Table 3.			

Part III - Risk Assessment. The risk assessment value for this site is determined using the					
following table.					
Table 3					
PROBABILITY	FREQUENT	PROBABLE	OCCASSIONAL	REMOTE	IMPROBABLE
LEVEL	Α	В	С	D	Е
SEVERITY					
CATEGORY:					
CATASTROPHIC I	1	1	2	3	4
CRITICAL II	1	2	3	4	4
MARGINABLE III	2	3	4	4	4
NEGLIGIBLE IV	3	4	4	4	4
NONE $(V) = RAC 5$					

RISK ASSESSMENT CODE (RAC)

- RAC 1-4 Recommend and approve further action as appropriate. Refer to EP 1110-1-18 for discussion of MMR Projects and the process to be followed for project execution.
- RAC 5 Usually indicates that No DOD Action Indicated (NDAI) is neccessary. Recommend and approve NDAI and follow instructions for project closeout in accordance with current program guidance.

PART IV. Narrative. Summarize the documented evidence that supports this risk assessment. If no documented evidence was available, explain all the assumptions that you made.

There is no physical vidence of OE hazards on the property. The property was reportly acquired but never used by the DoD. There have been no reports of ordnance being encountered by area land managers, users or owners.

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